
My NASA Data - Mini Lesson

Kuril Islands Volcanoes



Mini Lesson

1. Examine the image snapped from the International Space Station of the Sarychev Volcano in the Kuril Islands which are northeast of Japan. It is a photo of an early stage of eruption on June 12, 2009.



Sarychev Eruption June 12,2009 - Image Credit: NASA

2. Describe the impact you think the eruption could have on the Earth spheres: Atmosphere, Biosphere, Cryosphere, Geosphere, and Hydrosphere. Use the graphic organizer provided. NOTE: You will be filling it in for another image as well. Plan to use a different color or font to tell them apart. There is an [editable PDF](#) and an editable slide available.

 

**Earth System
Graphic
Organizer**

    

for PDF - or click [here](#).

3. Now, examine the image (also taken from the International Space Station) of the Raikoke Volcano, also in the Kuril Islands. This eruption occurred on June 22, 2019.



Raikoke Eruption June

22, 2019 - Image Credit: NASA

4. Describe the impact you think the eruption could have on the Earth spheres: Atmosphere,

Biosphere, Cryosphere, Geosphere, and Hydrosphere. Use the same graphic organizer provided. Record your observations for the new volcano in a different font or a different color.

Answer the following questions as directed.



Sarychev Eruption June 12, 2009 - Image Credit: NASA



Raikoke Eruption June 22, 2019 - Image Credit: NASA

Sarychev Eruption June 12, 2009 and Raikoke Eruption June 22, 2019 Image Credits: NASA

- A. Compare the two images. What are the similarities and differences in the images?
- B. The volcanoes happened approximately 30 km apart. What does this tell you about the area?
- C. Make a claim about the volcanoes in the area. Use the evidence from the images and give your reasoning.

Earth System Data Explorer

- [Monthly Aerosol Optical Depth](#)